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Patent  
39038.00002.CIP

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the Application of:

Sylvain, Chemtob et al.

Serial No.: 10/678,413

Filed: October 02, 2003

For: G PROTEIN-COUPLED RECEPTOR  
AGONISTS OR ANTAGONISTS

) Group Art Unit: 1614

) Examiner: To be assigned

) Customer No.: 36183

**TRANSMITTAL LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed are the following documents:

- Information Disclosure Statement;
- Form PTO/SB/08A; and
- Return Postcard;

No fee is believed due with this submission; however, the Commissioner is authorized to charge any fee required to our Deposit Account No. **50-2613**.

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(37 C.F.R. §1.8a)

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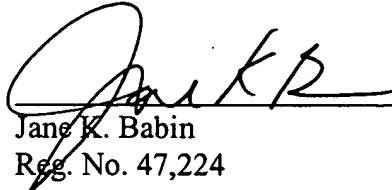
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Patent  
39038.00002.CIP

Respectfully submitted,

PAUL, HASTINGS, JANOFSKY & WALKER LLP

Dated: Sept 1, 2004 By:

  
Jane K. Babin  
Reg. No. 47,224

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Fax: (858) 720-2555



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In re the Application of: )  
Sylvain, Chemtob et al. ) Group Art Unit: 1614  
Serial No.: 10/678,413 ) Examiner: To be assigned  
Filed: October 02, 2003 ) Customer No.: 36183  
For: G PROTEIN-COUPLED RECEPTOR )  
AGONISTS OR ANTAGONISTS )

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the Applicant's duty under 37 CFR § 1.56, the following information is brought to the attention of the Examiner.

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September 2, 2004  
Date of Delivery

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**REFERENCES**



The references are listed on the attached Form PTO/SB/08a and copies are enclosed for the convenience of the Examiner.



Copies of the references listed on the attached Form PTO/SB/08a have already been submitted in corresponding Patent Application No. \_\_\_\_\_ and therefore, copies of the same are not enclosed.



Pursuant to the Patent Office waiver of 37 C.F.R. 1.98(a)(2)(i) (<http://www.uspto.gov/web/offices/pac/dapp/opla/preognotice/idswouscopies.htm>), copies of U.S. Patents and U.S. Patent application publications are not enclosed herewith.

The items identified in this Information Disclosure Statement may or may not be "material" pursuant to 37 CFR § 1.56 and the submission thereof by Applicant shall not be construed as an admission that any such patent, publication or other information referred to therein is material or considered to be material (37 CFR § 1.97(h)), or even qualifies as "prior art" 35 USC § 102 with respect to this invention unless specifically designated by Applicant as such.

The filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information, as defined in 37 CFR § 1.56, exists.

**DISCLOSURE**

The attached IDS is being filed in accordance with 37 CFR §§ 1.97 and 1.98. This IDS is believed to be timely in that it is being submitted under 37 CFR § 1.97(b)(3), that is before the mailing of a first Office Action on the merits. Thus, no petition or fee is required. However, if the undersigned representative of Applicant is in error in this regard, then the Examiner is requested to consider this IDS as filed under § 1.97(c)

The attached Information Disclosure Statement is being filed in accordance with 37 CFR §§ 1.97(c) and 1.98. This IDS is being filed after an action on the merits but before a Final Action under § 1.113 or a Notice of Allowance under § 1.311. In the event that this IDS is not received before a Final Action under § 1.113 or a Notice of Allowance under § 1.311, the Applicant respectfully requests the filing of these papers to be considered a petition requesting consideration of this IDS pursuant to 37 CFR § 1.97(d).

The attached Information Disclosure Statement is being filed in accordance with 37 CFR §§ 1.97(d) and 1.98. This IDS is being filed after receipt of a final action but before receipt of a Notice of Allowance Under § 1.311.

**Statement Under 37 C.F.R. 1.97(e)(1) and 1.97(e)(2)**

I certify that pursuant to 37 CFR 1.97(e)(1), each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement.

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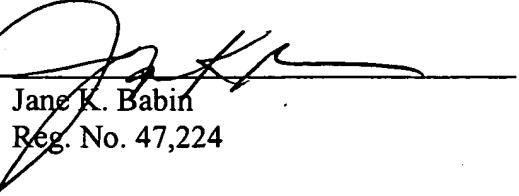
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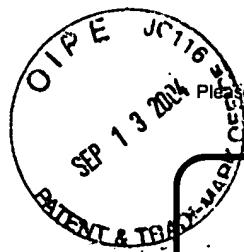
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

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### Complete if Known

Application Number	10/678,413
Filing Date	October 02, 2003
First Named Inventor	Sylvain, Chemtob et al.
Group Art Unit	1614
Examiner Name	To be assigned
Attorney Docket Number	39038.00002.CIP

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			

### FOREIGN PATENT DOCUMENTS

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
AA		WO 97/12624			Defeo-Jones et al.	04-10-1997		
AB		WO 96/19233			Demopoulos et al.	06-27-1996		
AC		WO 96/06856			Webber, Robert	03-07-1996		
AD		WO 95/29193			Kawakami, Yutaka et al	11-02-1995		
AE		WO 95/11987			Scott, Randy et al.	05-04-1995		
AF		WO 94/020127	A1		Grey, Howard M. et al.	09-15-1994		
AG		WO 99/55849			Honeyman, Margo et al.	11-04-1999		
AH		WO 98/26070			Cherk, Tam	06-18-1998		
AI		WO 97/34621			Grey, Howard et al.	09-25-1997		
AJ		WO 97/18236			Miller, Jonathon et al.	05-22-1997		
AK		EP 0045665			Szelke, Michael et al.	09-04-1985		

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
AL		ABRAN, DANIEL et al. "Regulation of prostanoïd vasomotor effects and receptors in choroidal vessels of newborn pigs" The American Physiological Society, 1997, Pages R995 – R1001.	

Examiner Signature	SAN/97452.I	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation is not in conformance and not considered. Include copy of this form with next communication to applicant.

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/678,413
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				First Named Inventor	Sylvain, Chemtob et al.
				Group Art Unit	1614
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	AM	ALMQUIST, RONALD G. et al. "Synthesis and Biological Activity of a Ketomethylene Analogue of a Tripeptide Inhibitor of Angiotensin Converting Enzyme" J. Med. Chem. 1980, 23, 1392-1398.			
	AN	BALDWIN, JOYCE M. et al. "An Alpha-carbon Template for the Transmembrane Helices in the Rhodopsin Family of G-protein-coupled Receptors" J. Mol. Biol. (1997) 272, 144-164.			
	AO	BASTIEN, LISON et al. "Cloning, Functional Expression, and Characterization of the Human Prostaglandin E2 Receptor EP2 Subtype" The Journal of Biological Chemistry, Vol. 269, No. 16, pp. 11873-11877, 1994.			
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	AQ	BREYER, MATTHEW D. et al. "Differential localization of prostaglandin E receptor subtypes in human kidney" Rapid Communication, F912 – F918.			
	AR	BREYER, MATTHEW D. et al. "Regulation of renal function by prostaglandin E receptors" Kidney International, Vol. 54, Suppl. 67, (1998) S88-S94.			
	AS	CRANKSHAW, D.J. et al. "Effects of some naturally occurring prostanoids and some cyclooxygenase inhibitors on the contractility of the human lower uterine segment in vitro" Can. J. Physio. Pharmacol. Vol. 72, 1994, 870-874.			
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	AV	GOODMAN, MURRAY et al. "The Synthesis and Conformational Analysis of Retro-Inverso Analogues of Biologically Active Molecules" Perspectives in Peptide Chemistry, 1981, pp. 283-294.			
	AW	GYETVAI, KRISTEN et al. "Tocolytics for Preterm Labor: A Systematic Review" The American College of Obstetricians and Gynecologists, Vol. 94, No. 5, Part 2, November 1999, pp.869-877.			
	AX	HANN, MICHEAL M. et al. "On the Double Bond Isostere of the Peptide Bond: Preparation of an Enkephalin Analogue" J.C.S. Perkin, 1982, pp. 307-314.			
Examiner Signature	SAN/97452.1		Date Considered		

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Sheet

3 of 5

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Application Number	10/678,413
Filing Date	October 02, 2003
First Named Inventor	Sylvain, Chemtob et al.
Group Art Unit	1614
Examiner Name	To be assigned

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	AY	HAY, DOUGLAS W. P. et al. "Human urotensin-II is a potent spasmogen of primate airway smooth muscle" British Journal of Pharmacology (2000), 131, pp. 10-12.	
	AZ	"HEBERT, TERENCE E. et al. "A Peptide Derived from a B2-Adrenergic Receptor Transmembrane Domain Inhibits Both Receptor Dimerization and Activation" The Journal of Biological Chemistry, Vol. 271, No. 27, pp. 16384-16392, 1996.	
	BA	HOLLADAY, MARK W. et al. "Synthesis of Hydroxyethylene and Ketomethylene Dipeptide Isosteres" Tetrahedron Letters, Vol. 24, No. 41, pp. 4401-4404, 1983.	
	BB	HRUBY, VICTOR J. "Conformational Restrictions of Biologically Active Peptides via Amino Acid Side Chain Groups" Life Sciences, Vol. 31, pp. 189-199 (1982).	
	BC	HUDSON, DEREK et al. "Methionine Enkephalin and Isosteric Analogues" Int. j. Peptide Protein Res. 14, 1979, pp. 177-185.	
	BD	ICHIKAWA, A. et al. "Molecular aspects of the structures and functions of the prostaglandin E receptors" J. Lipid Mediators Cell Signalling 14(1996) pp. 83-87.	
	BE	JAMES, GUY L. et al. "Benzodiazepine Peptidomimetics: Potent Inhibitors of Ras Farnesylation in Animal Cells" Science, Vol. 260, 25 June 1993, pp. 1937-1942.	
	BF	JENNINGS-WHITE, CLIVE et al. "Synthesis of Ketomethylene Analogs of Dipeptides" Tetrahedron Letters, Vol. 23, No. 25, pp. 2533-2534, 1982.	
	BG	LAKE, S. et al. "Cloning of the rat and human prostaglandin F <sub>2α</sub> receptors and the expression of the rat prostaglandin F <sub>2α</sub> receptor" Federation of European Biochemical Societies, 355, (1994) 317-325.	
	BH	LEE, PIL RYANG et al. "Therapeutic effect of cyclo-oxygenase inhibitors with different isoform selectivity in lipopolysaccharide-induced preterm birth in mice" Am J Obstet General, Volume 189, No. 1 (2003), pp. 262-266.	
	BI	LOFTS, F.J. et al. "Specific short transmembrane sequences can inhibit transformation by the mutant neu growth factor receptor <i>in vitro</i> and <i>in vivo</i> " Oncogene (1993) 8, 2813-2820.	
	BJ	LUMSDEN, M.A. et al. "Is Prostaglandin F <sub>2</sub> Involved in the Increased Myometrial Contractility of Primary Dysmenorrhoea?" Prostaglandins, May 1983 Vol. 25 No. 5, pp. 683-692.	

Examiner Signature	SAN/97452.1	Date Considered
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	BK	MORALES, WALTER J. et al. "Efficacy and Safety of Indomethacin Versus Ritodrine in the Management of Preterm Labor: A Randomized Study" <i>Obstetrics &amp; Gynecology</i> , Vol. 74, No. 4, October 1989, pp. 567-572.	
	BL	MORATH, RUTA et al. "Immunolocalization of the Four Prostaglandin E2 Receptor Proteins EP1, EP2, EP3, and EP4 in Human Kidney" <i>J. Am Soc Nephrol</i> 10: 1851-1860, 1999.	
	BM	MORLEY, J.S. "Modulation of the action of regulatory peptides by structural modification" <i>TIPS</i> , December 1980, pp. 463-468.	
	BN	NARUMIYA, SHUH et al. "Prostanoid Receptors: Structures, Properties, and Functions" <i>Physiological Reviews</i> , Vol. 79, No. 4, October 1999, pp. 1193-1226.	
	BO	NGUYEN, MYTRANG et al. "The prostaglandin receptor EP4 triggers remodelling of the cardiovascular system at birth" <i>Letters to Nature</i> , Vol. 390, November 6, 1997, pp. 78-81.	
	BP	NOVY, MILES J. et al. "Role of Prostaglandins, Prostacyclin and Thromboxanes in the Physiologic Control of the Uterus and in Parturition" <i>Seminars in Perinatology</i> , Vol. 4, No. 1 (January), 1980, pp. 45-66	
	BQ	PERI, KRISHNA G. et al. "THG113: A Novel Selective FP Antagonist that Delays Preterm Labor" <i>Seminars in Perinatology</i> , Vol. 26, No. 6 (December), 2002, pp. 389-397.	
	BR	POWELL, ANDREA M. et al. "Menstrual-PGF <sub>2α</sub> , PGE <sub>2</sub> , and TXA <sub>2</sub> in Normal and Dysmenorrheic Women and Their Temporal Relationship to Dysmenorrhea" <i>Prostaglandins</i> , February 1985, Vol. 29, No. 2, pp. 273-293	
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	BT	REHWALD, MATTHIAS et al. "Possible role for Ligand binding of histidine 81 in the second transmembrane domain of the rat prostaglandin F <sub>2α</sub> receptor" <i>FEBS Letters</i> 443, (1999), pp. 357-362.	
	BU	RUDINGER, J. "Characteristics of the amino acids as components of peptide hormone sequence" pp. 1-7.	
	BV	SCHLONDORFF, DETLEF et al. "Prostaglandins and other arachidonic acid metabolites in the kidney" <i>Kidney International</i> , Vol. 29 (1986), pp. 108-119.	

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	BW	SCHRAMM, HANS J. et al. "The inhibition of human immunodeficiency virus proteases by interface peptides" Antiviral Research 30 (1996), pp. 155-170.	
	BX	SEGI, ERI et al. "Patent Ductus Arteriosus and Neonatal Death in Prostaglandin Receptor EP4-Deficient Mice" Biochemical and Biophysical Research Communications 246, 7-12 (1998) pp. 7-12.	
	BY	SENIOR, J. et al. "In Vitro characterization of prostanoid FP-, DP-, IP- and TP-Receptors on the non-pregnant human myometrium" J. Pharmacol (1992), 107, pp. 215-221.	
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Examiner Signature	SAN/97452.1	Date Considered
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